Quick Sort – Random Initialization

* The 11 data points indicate an O(n2) relationship between list length and sorting time. The relation between length of list and time can be modeled by .000000000828\*n2-.0000009\*n+.063
* Prediction for the time required for Merge Sort to sort a randomly initialized list of length 10,000,000: y(10000000)=82791.063 seconds or 23.00 hours

